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TITLE : FUEL CELL ELECTRODE BASE MATERIAL AND ITS MANUFACTURE

ABSTRACT : PROBLEM TO BE SOLVED: To provide a carbonaceous porous material which is suitable as an electrode base material for a fuel cell to hold a great quantity of phosphoric acid as electrolyte and less splash phosphoric acid in use.

SOLUTION: A carbonaceous porous material has a groove on the single side to distribute reactive gas therein, with a porosity changed in thickness at 62-68% on the grooved side and at 70-80% on the non-grooved side. One or more paper (especially, different mixing rate of components) which contains carbon fiber and thermosetting resin and can also contain organic fiber smaller in diameter than the carbon fiber is laminated, heated and molded into a compact and then carbonized or graphitized in manufacturing processes.

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